

# ANSWER KEY

## #2 Total Tie

Move card 9 from Box C to Box A.

## #3 Above and Beyond

$$7 + 5$$

$$8 \times 9 - 2$$

$$6 \div 3$$

$$1 + 4 \text{ (vertically)}$$

## #5 Equal Sides

4  
 2 7  
 9 3  
 5 8 1 6

## #6 Jump

1. Move 5 over 8, 9, 3 and 1.
2. Move 7 over 4.
3. Move 6 over 2 and 7.
4. Move 5 over 6.

## #8 Sum It

### Largest

2 4 6

7 3 5

9 8 1

### Smallest

2 7 6

1 8 3

4 5 9

### Closest to 500

1 6 7

3 2 8

4 9 5

### Closest to 800

6 5 8

1 3 4

7 9 2

## #9 Disorder

3 5  
 7 1 8 2  
 4 6  
 9

## #11 Move Four

1. Move 7 and 2 to outer left.
2. Put 6 and 8 to the empty spaces from 7 and 2.
3. Put 5 and 6 at right end.
4. Put 3 and 8 at right end.

**Result:** 7 2 1 4 5 6 3 8

### Master Challenge

1. Move 7 and 2 to outer left.
2. Move 5 and 4 to left of 7 and 2.  
Move 3 and 6 to outer right.

**Result:** 5 4 7 2 1 8 3 6

## #13 Perfect Score

$$7 \times 1 = 7$$

$$4 + 6 \div 2 = 5$$

$$6 \times (6 - 5) = 6$$

$$(2 \times 3) + 8 = 14$$

$$(3 \times 9) - 4 = 23$$

### #16 Four Times

$$\begin{array}{r} 157 \\ \times 28 \\ \hline 4396 \end{array}$$

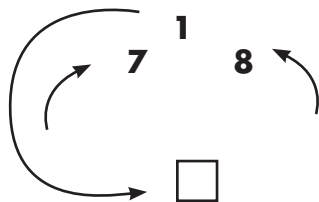
$$\begin{array}{r} 138 \\ \times 42 \\ \hline 5796 \end{array}$$

$$\begin{array}{r} 186 \\ \times 39 \\ \hline 7254 \end{array}$$

$$\begin{array}{r} 198 \\ \times 27 \\ \hline \end{array}$$

5346

### #17 Flip It



### #19 Five Ways

2  
8 7  
4 5  
9 6  
1 10 3

### #21 Magic Square

816  
357  
492

### #22 Odd Win

To get an odd total, you must add an odd and an even number. Therefore, if your subtotal is even, take a card or cards whose face value when added make an odd number. If your subtotal is odd, take a card or cards whose face value when added make an even number.

### #23 Even Blast

$$8 \times 2 \div 4 = 4$$

$$+ \quad + \quad +$$

$$6 \times 9 \div 3 = 18$$

$$+ \quad + \quad +$$

$$\begin{array}{r} 7 \times 5 - 1 = 34 \\ \hline \end{array}$$

$$2 \quad 16 \quad 8$$

### #24 Take One

It helps to think about a magic square (3 x 3 grid). Try to get "two corners and a middle." That way you can't be stopped because you have two ways to make 15.

### #25 In Reverse

1 2 3, 4 5 6, 7 9 0

$$\begin{array}{r} \phantom{000000} \times 8 \\ \hline 987,654,320 \end{array}$$